

# Calamitous Conveyance

Wobbly delay fun

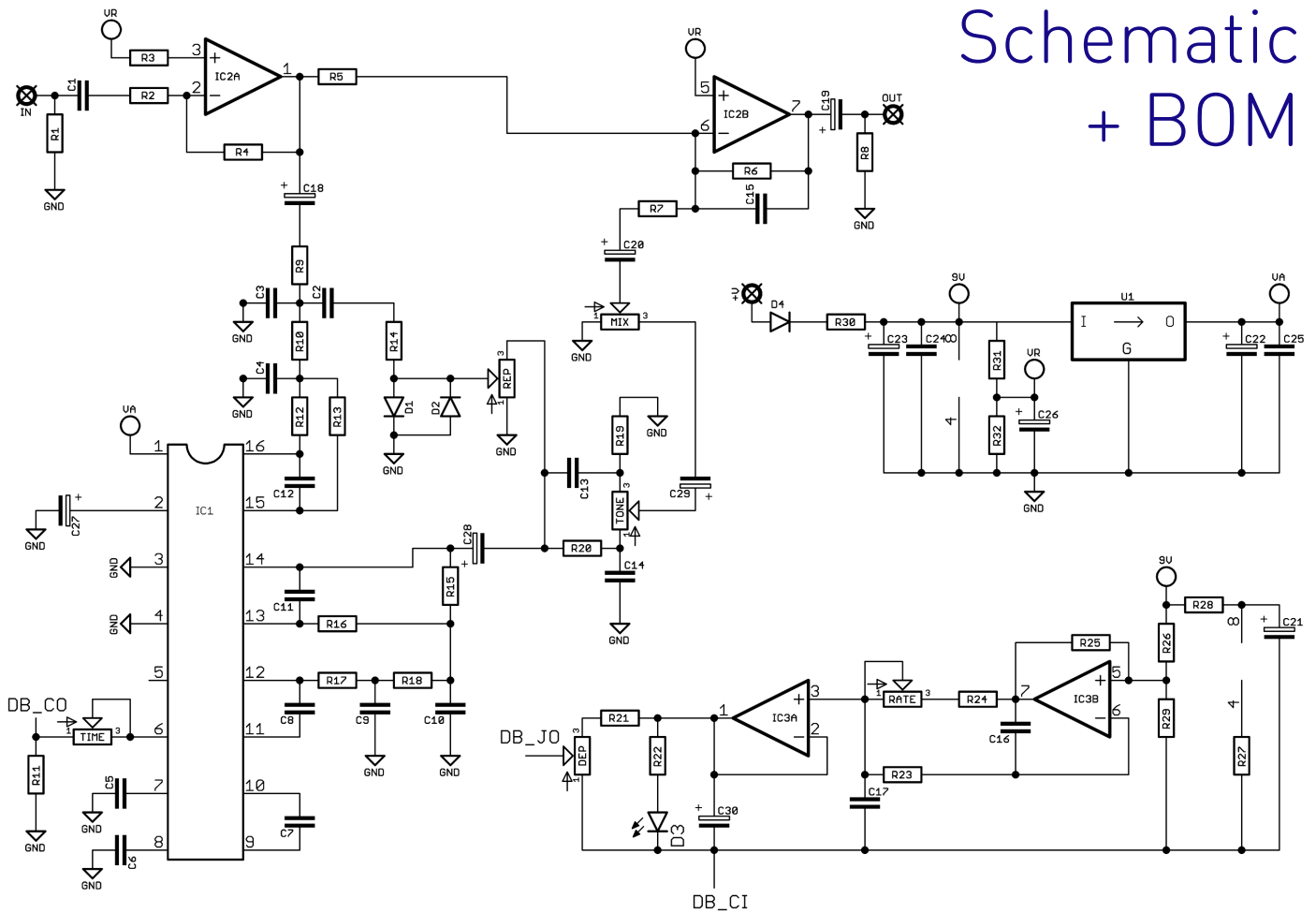


Before you dig in, ensure you download and read the **General Build Guide**.

It contains all the information you need for a successful outcome.



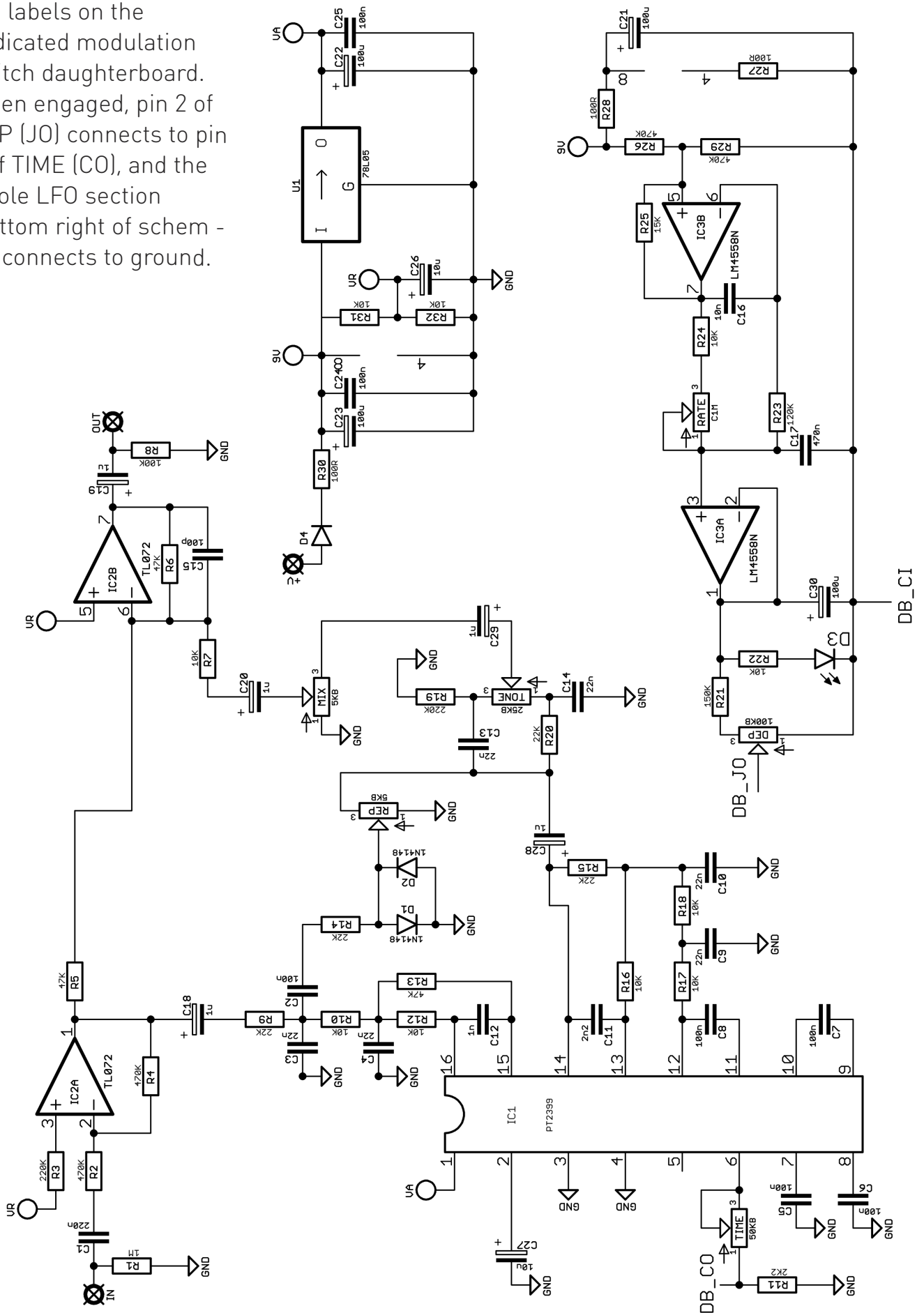
# Schematic + BOM

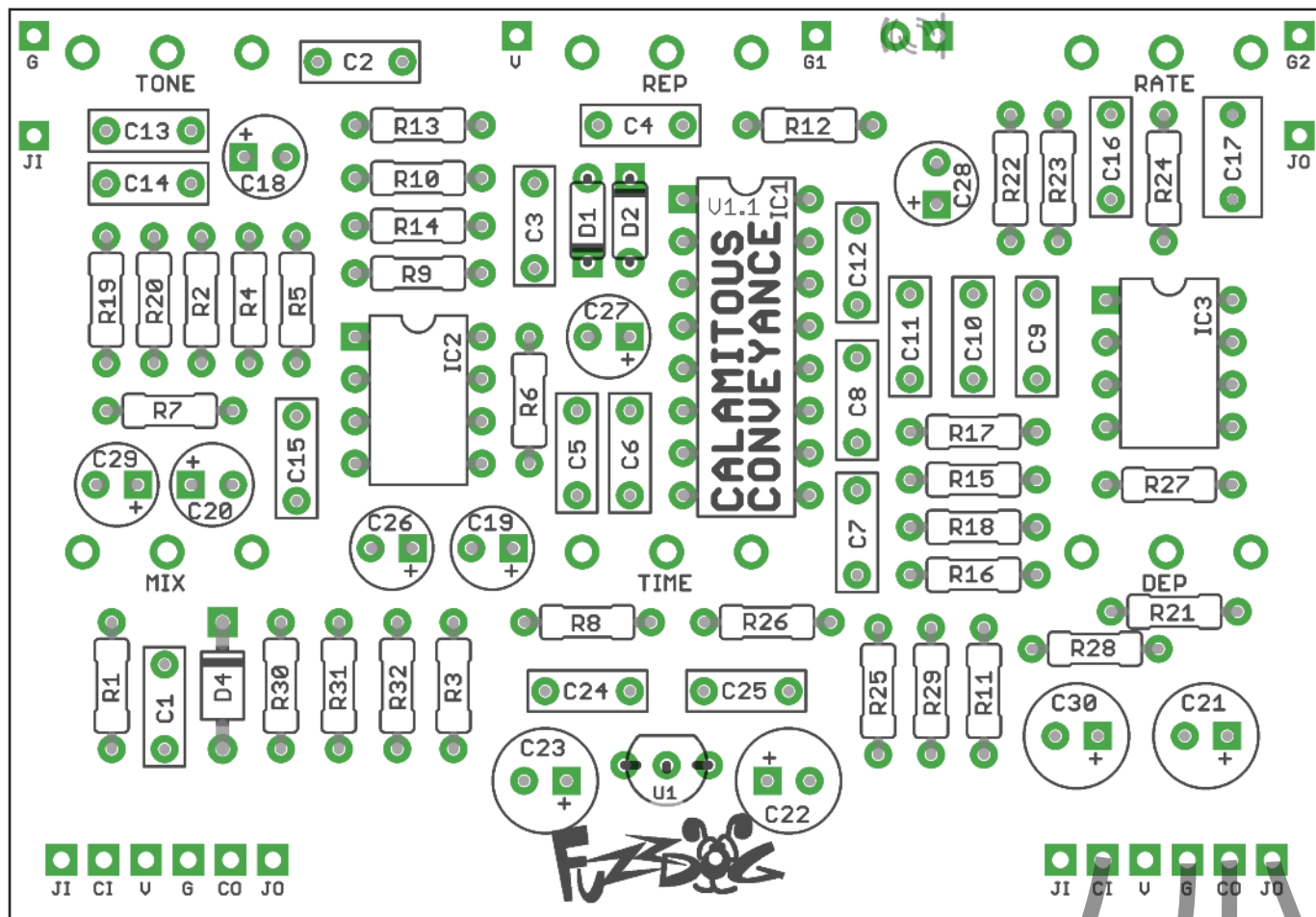


C1	220n	C23	100u elec	R14	22K	D1	1N4148
C2	100n	C24	100n	R15	22K	D2	1N4148
C3	22n	C25	100n	R16	10K	D3	LED*
C4	22n	C26	10u elec	R17	10K	IC1	PT2399
C5	100n	C27	10u elec	R18	10K	IC2	TL072
C6	100n	C28	1u elec	R19	220K	IC3	4558
C7	100n	C29	1u elec	R20	22K	U1	78L05
C8	100n	C30	100u elec	R21	150K	DEP	100KB
C9	22n			R22	10K	MIX	5KB
C10	22n	R1	1M	R23	120K	RATE	1MC
C11	2n2	R2	470K	R24	10K	REP	5KB
C12	1n	R3	220K	R25	15K	TIME	50KB
C13	22n	R4	470K	R26	470K	TONE	25KB
C14	22n	R5	47K	R27	100R		
C15	100p	R6	47K	R28	100R		
C16	10n	R7	10K	R29	470K		
C17	470n	R8	100K	R30	100R		
C18	1u elec	R9	22K	R31	10K		
C19	1u elec	R10	10K	R32	10K		
C20	1u elec	R11	2K2				
C21	100u elec	R12	10K				
C22	100u elec	R13	47K				

\*Modulation rate indicator. We recommend diffused rather than clear.

We've marked connections on the schematic according to the labels on the dedicated modulation switch daughterboard. When engaged, pin 2 of DEP (J0) connects to pin 1 of TIME (C0), and the whole LFO section (bottom right of schem - CI) connects to ground.





Snap the small metal tag off the pots so they can be mounted flush in the box.

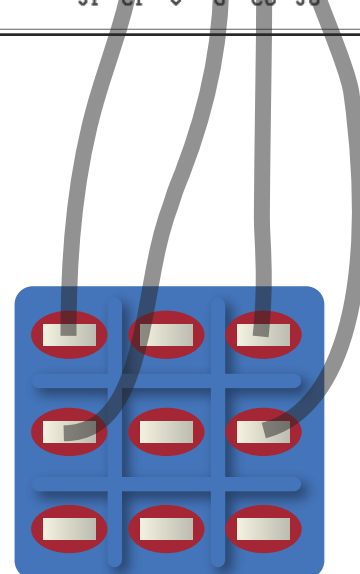
You should solder all other board-mounted components before you solder the pots.

Once they're in place you'll have no access to much of the board.

The modulation footswitch (right on the above image) requires a dedicated daughterboard. You can wire it up without a board if you like - see right.

Note, modulation may stop at the extremes of the pot rotation. It's just how it is.

We've designed the kit so you can mount the footswitch boards to the main PCB with long header pins, but you can wire them or use ribbon cables in you prefer. More on the next page.





# Assembling with long header pins

Mount your pins to the main board as shown.

Attach your main PCB to the enclosure with the pots fastened firmly.

Attach your footswitches with the inner nut and washer set to the height you want and fasten these loosely.

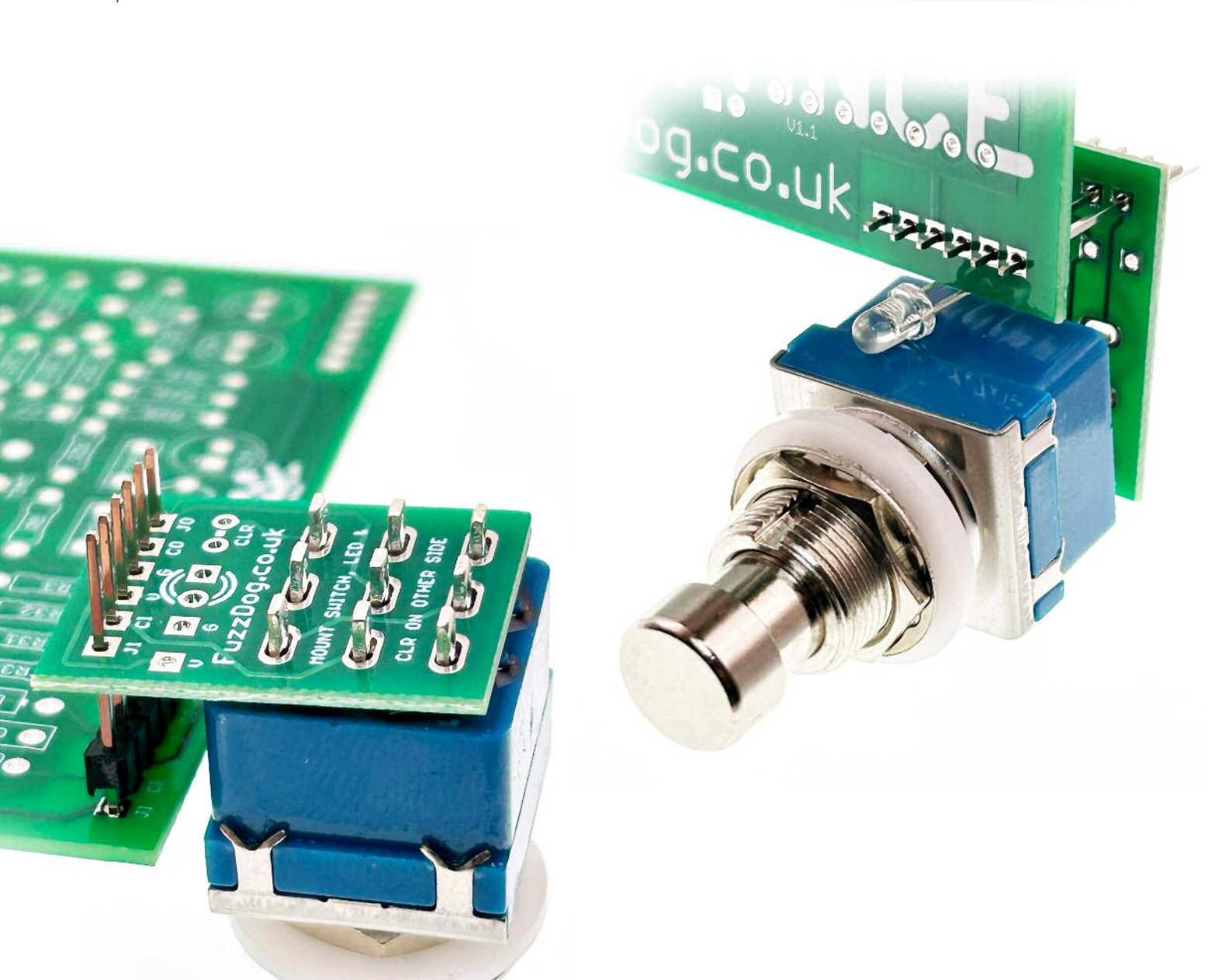
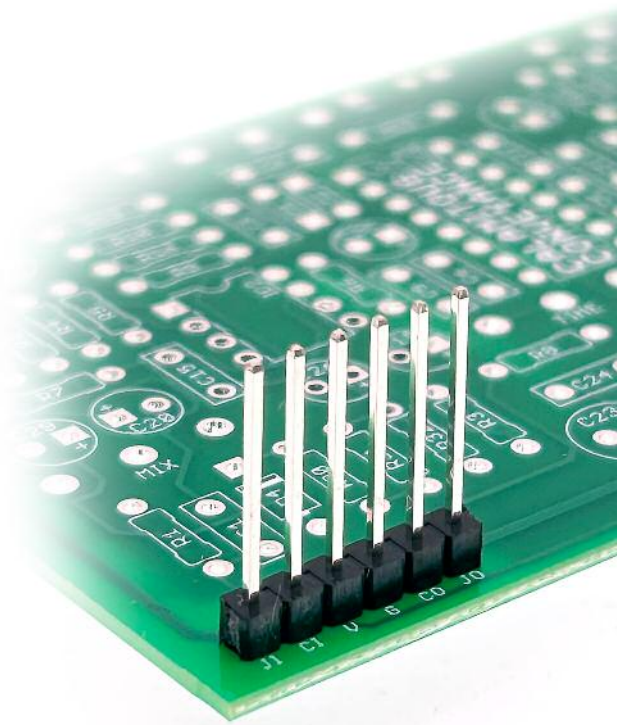
Insert your LED into the daughterboard - don't solder!

Now position your daughterboard over the header pins. Manoeuvre the LED so it goes below the main PCB, as once the daughterboard is fully seated it won't fit between the boards. Drop it into it's hole in the enclosure. Now drop the daughterboard fully down onto the footswitch.

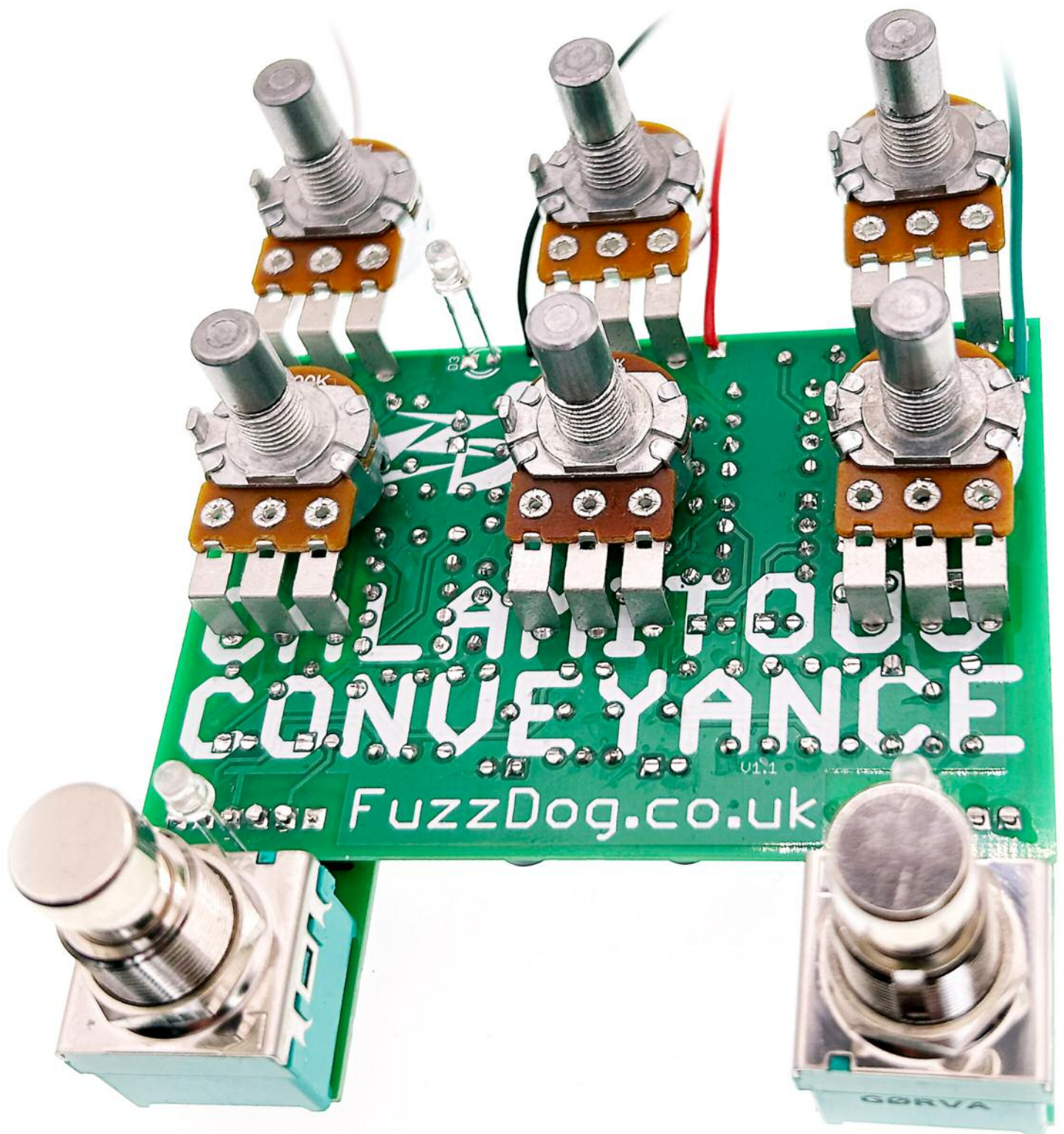
Check everything is nicely aligned and solder the daughterboard to the footswitch.

Another quick check, then tighten the footswitches and solder the header pins to the daughterboard.

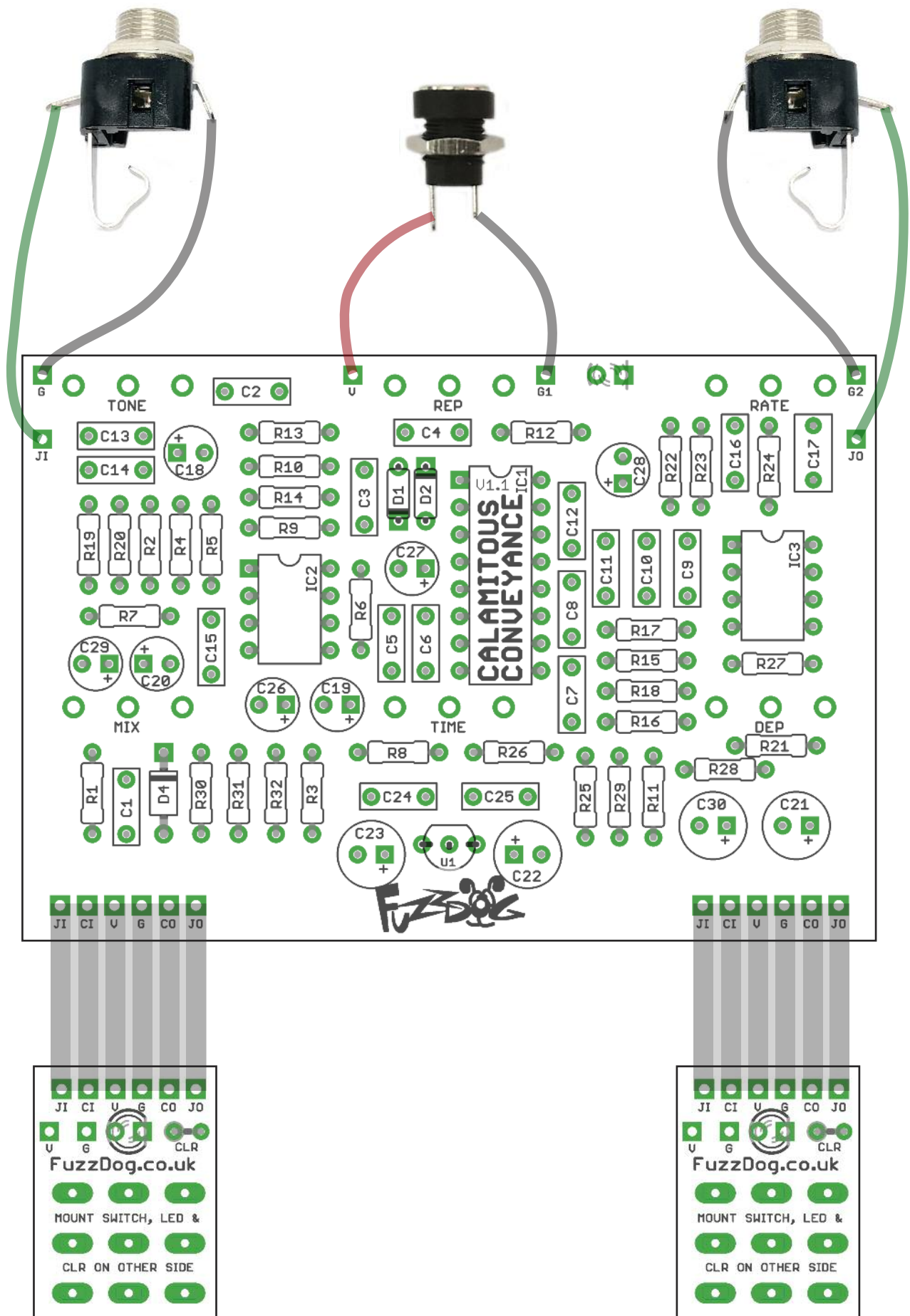
Repeat for the second footswitch.







# Wiring





# Drilling template

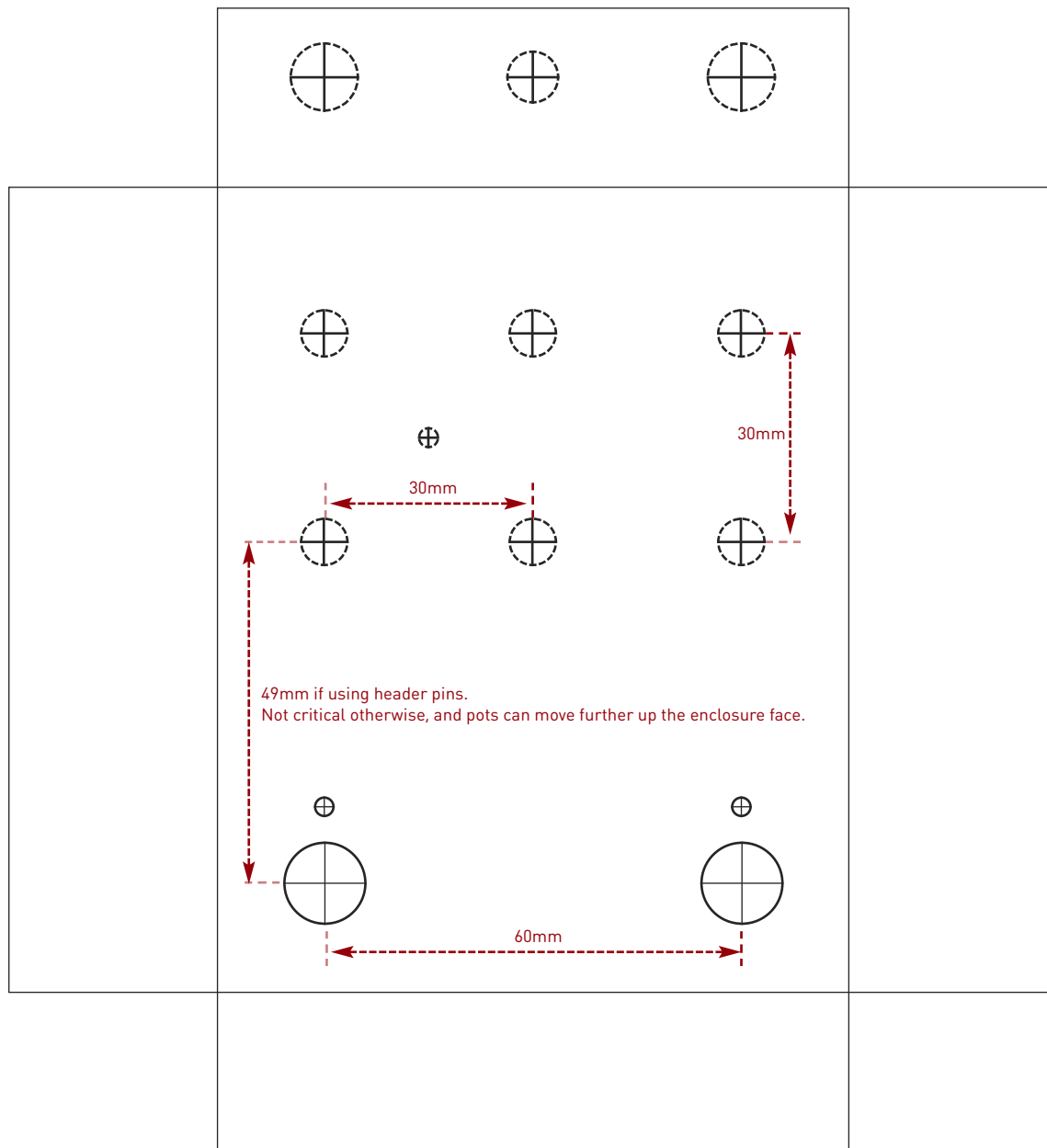
## Hammond 1590BB

Drill sizes listed are minimum.

It's a good idea to add 1mm to anything mounted on the PCB that'll poke through the front of the enclosure.

Drill sizes:

Pots	7mm
Jacks	10mm
Footswitch	12mm
DC Socket	12mm



This template is a rough guide only. You should ensure correct marking of your enclosure before drilling. You use this template at your own risk.

Pedal Parts Ltd can accept no responsibility for incorrect drilling of enclosures.

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